INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/04180

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ C23F11/00			
According t International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ C23F11/00			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2002 Kokai Jitsuyo Shinan Koho 1971-2002 Jitsuyo Shinan Toroku Koho 1996-2002			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		Relevant to claim N .
X A	JP 50-51938 A (Nippon Steel 09 May, 1975 (09.05.75), (Family: none)	Corp.),	1-3,10,11 <u>4-9</u>
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Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents: "A" document defining the general state of the art which is not		"T" later document published after the interpriority date and not in conflict with t	-
considered to be of particular relevance		understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be	
date "L" document which may throw doubts on priority claim(s) or which is		considered novel or cannot be considered to involve an inventive step when the document is taken alone	
cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
means "P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent	
Date of the actual completion of the international search 15 July, 2002 (15.07.02)		Date of mailing of the international search report 30 July, 2002 (30.07.02)	
Name and mailing address of the ISA/		Authorized officer	
Japanese Patent Office			
Facsimile No.		Telephone No.	